RESEARCH AND DEVELOPMENT, NEUCHATEL - QUARTERLY REPORT

DIVISION : MANUFACTURING SERVICES GROUP

SUBJECT TITLE : NON-TOBACCO MATERIALS EVALUATION

PERIOD COVERED : APRIL-JUNE 1990

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KEYWORDS : material, filter, additive, charcoal, tow, plug wrap, tipping paper, cigarette paper

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FILTER ADDITIVES

Project "Carbo"

Objective : Eliminate MPEG 550, MPEG 750 and PEG 600 in all white and black semi-filters manufactured by FTR and INB.

Status : Two cigarette prototypes BRD and MAK-CH were manufactured at FTR at the beginning of May.

BRD-24P : white-semi : 7% triacetine instead of 10% PZ-8-FI
black-semi : - black tow 5.0Y/35000 instead of 5.0X/40000
- RC333 charcoal quality instead of CFT 136-140
- 4% triacetine instead of 8% CA-INM-FI

MAK-25P : same modifications as on BRD-24P

Both prototypes gave expected smoke deliveries and were evaluated by the EEMA descriptive panel. Positive comments came out especially on the BRD prototype.

Both cigarettes were released mid-May for mail-out tests.
New MAK prototypes were manufactured at the end of June with two different charcoal quantities.

In parallel, first machinability trials were performed at INB on the KDF2/AF2/AC maker using both new tow and charcoal qualities. Difficulties were encountered with the presence of charcoal particles under the seam.

Follow-up: Final results of both mail-out tests will be available by mid-July as well as the descriptive evaluation of the new Muratti KS-CH prototypes. New machinability trials will be done at INB when a modified tongue from Hauni is received.

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Source: https://www.industrydocuments.ucsf.edu/docs/qpnm0000

FILTRATION MATERIAL

1. Tow courtaulds 3.0Y/35000

Objective: Qualify this item for Marlboro KS Pan-Europe

Status: Positive results came out from the mail-out test made in Switzerland (D panel) where the MLK prototype using Courtaulds was compared to a standard using Rhodia tow. Three local confirmation tests were made at PMH, PMB and PMG-M. For all tests, we organised local B panels as well as R&D B panels. All six evaluations showed no significant difference between the controls and the prototypes.
The tow from Courtaulds was tested against:

- Eastman at PMG-M and PMH
- Hoechst & Celanese at PMB

Follow-up: Consolidated report of all those tests will be published at the end of July. All factories have been asked now to run small industrial tests with 5 to 10 tons of Courtaulds material.

2. Inter-affiliates collective test with Hoechst & Celanese

Objective: Optimise our current material specifications for tow items.

Status: Capability lines were made in 5 production centres with 4 different items produced at Lanaken.

Item: 3.8Y/37000 - 3.0Y/35000 - 2.5.Y/37000 and 2.6Y/42000.

In addition, all physical tests were also done by all our incoming inspection labs. A similar exercise was already done before by the supplier on the same bales.

Follow-up: In mid-July the program will be completed by making the capability lines at INB. Consolidation of all results will be presented and discussed with all affiliates and the supplier, early October.

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3. Crepe paper for filters

Objectives: Improve the paper quality delivered by Tela. Check the influence of process manufacturing changes (switch from round table to a flat table).

Status: PMU-CH cigarette prototype was manufactured at FTR using the combi-filter produced at INB with the new material. The test cigarette was approved analytically and tastewise. The industrial test made at INB showed some difficulty in reaching the RTD. All results were discussed at a meeting that took place with the supplier.

Follow-up: New samples are expected beginning of September.

PLUG WRAP PAPER

1. Mauduit PPW 33 (3300 Coresta units)

Objective: Standardise the bobbin winding for all production centres, in order to have the wire side of the paper inside the bobbin.

Status: Two factories (FTR and INB) have already changed and are using now bobbins with the wire side inside.

Follow-up: Three other factories have ordered the material for industrial testing.

2. Mauduit PPW 120 (12000 Coresta units)

Objective: Replace the PPW 140 quality (cost advantages).

Status: Trials made at FTR on the Bond Street family were successful. No difficulties were encountered with all three different types of tipping paper used.

Follow-up: Industrial testing is ongoing at PMH and combi-filters will be manufactured at INB in September to test the "runnability" of the paper.

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CIGARETTE PAPER

1. Mauduit 165 A (100% wood pulp)

   Objective: Qualify a second supplier on the Multifilter family.

   Status: This paper has been accepted and is now fully qualified.

TIPPING PAPER (Project "FITIA")

Objective: Improve the gluing of the tipping paper to the filter plug and tobacco rod, on high-speed makers.

Status: A successful test was made at PMG-B on the PMT cigarette using the LS quality from Malaucene.

Follow-up: A confirmation test will be made at PMG-M with the same quality on the PMS cigarette. Another trial will be performed at PMH on Merit 100's with Benkert Blancophan 390 quality.

MATERIAL EVOLUTION - STATUS REPORT NBR. 47/48

Both above-mentioned reports have been published on May 7 and June 26, 1990 by C. Flury.

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Source: https://www.industrydocuments.ucsf.edu/docs/qpnm0000

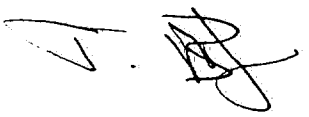
FILTER MANUFACTURING SUPPORT PROGRAM

Objective: Provide technical assistance to the PME factories in order to improve filter consistency and machine efficiency, and to reduce material wastage and manufacturing costs.

Status: Initial discussions took place in all production centres at the end of May with representatives of production, engineering, purchasing and quality assurance.

Consolidated report has been published (ref. 1)

Follow-up: Similar meeting will take place at PM-Spain early July. Official activities with the critical QA methodology group will start in September.



REFERENCE:

1. Filter manufacturing support program / Summary of the initial discussions, by J. Krauss and T. Bel, dated June 27, 1990.

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